Use Attainability Analysis

for

WBID 1870 Spring Branch

Submitted by Missouri Department of Natural Resources Staff

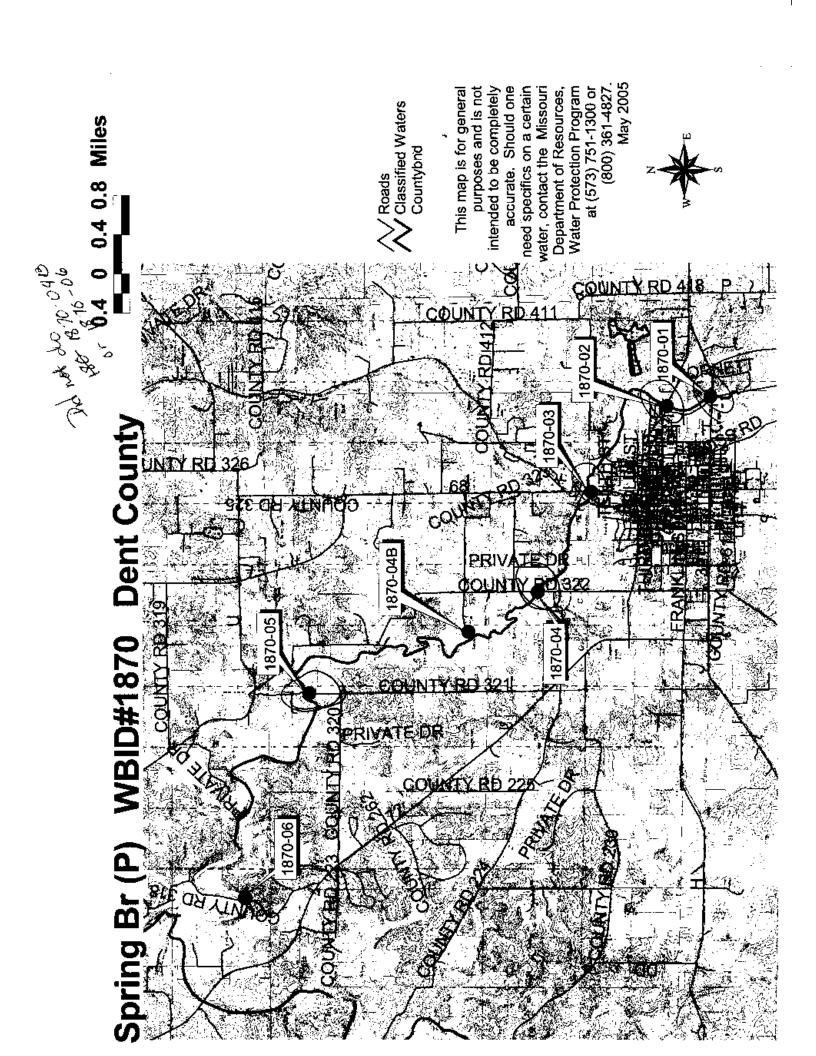
To Missouri Department of Natural Resources Water Protection Program

Data Sheet A - Water Body Identification

8-digit HUC: 07140102
Missouri WBID #: 1870
County: Dent
Upstream Legal Description:
Downstream Legal Description:
Upstream Coordinates:
Downstream Coordinates:
Discharger Facility Name(s): Salem WWTF, Adams Subd Asoc Inc, Seville Care Center, Salem Hospital
Discharger Permit Number(s): MO-0021768, MO-0083984, MO-0089974, MO-0087076
Number of Sites Evaluated: (1870-01, 1870-02, 1870-03, 1870-04, 1870-04B, 1870-05, 1870-06)
Name of Surveyor and Telephone Number: Priscilla Stotts, 573-526-3406
Organization: Missouri Department of Natural Resources
Position: Stream Team Coordinator

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Prisiella Statts	Date:	May 13, 2005	
- 01	_	()	



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 1870	001			escription: Spring Branch,			
Site GPS Coordinates:			In the	Salem City Linic	k s		
Date & Time: YMau	13 8:10	aim	Facility Name:	Facility Name: Salem WWTF, Adams Subd. Asoc. Inc, Seville Care			
Personnel: Priscilla Stot		<u> </u>	Permit Number:	Permit Number: MO-0021768, MO-0083984, MO-0089974, MO-			
Current Weather Conditi	ons: Clar	と		ons for Past 7 days:			
Photo Ids: Upstream:		wnstream:	Other	· No place to	Take a shok		
			h	Busy Hwy	Trade		
Jses Observed*:	.,			0 (10 0)			
Swimming	Skin diving		SCUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking		Boating	Wading	Rafting		
☐ Hunting	☐ Trapping		Fishing	None of the above	Other: N		
Describe: (include numb	er of individuals n	oviousing, be	aquency of use, photo-		00.700.7		
Surrounding Condition							
		t promote or					
Surrounding Condition	ns*: (Mark all tha	t promote or	impede recreational u	ses. Attach photos of evider	nce or unusual		
Surrounding Condition tems of interest.)	as*: (Mark all tha	t promote or	impede recreational u	ses. Attach photos of evide	nce or unusual		
Surrounding Condition tems of interest.) [Light hydrounty parks] Boating accesses	as*: (Mark all tha Playgrounds State parks Fence	t promote or	impede recreational u conservation lands nal forests	ses. Attach photos of evider Urban areas Nature trails	nce or unusual		
Surrounding Condition tems of interest.) [[Mathy/county parks] Boating accesses No trespass sign	as*: (Mark all tha Playgrounds State parks Fence	t promote or MDC Nation Steep	impede recreational u conservation lands nal forests	ses. Attach photos of evider Urban areas Nature trails	nce or unusual		
Surrounding Condition tems of interest.)	as*: (Mark all tha Playgrounds State parks Fence e*:	t promote or MDC Nation Steep	impede recreational u conservation lands nal forests slopes	ses. Attach photos of evider Urban areas Nature trails Other:	nce or unusual Campgrounds Stairs/walkway		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Riffle Widt	(ft):	•••	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
DRun Widt	(ft):	3	Length (ft):	Avg. Depth	(ft): ∠ '	Max. Depth (ft):	'</td
Pool Widt	(ft):		Length (ft):	Avg. Depth		Max. Depth (ft):	·
Flow Prese	nt? L	Yes .	∐ No	Estimated ((t ² /sec): O. <u>B/</u>	to 0.4	
Downstream V	iew Ph	ysical	Dimensions:				
Riffle Widt	(ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Run Widt	(ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
☐ Pool Widt	(ft);		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Flow Prese	nt?] Yes	□ No	Estimated (
Could no	7 3	300	the cred	ek - too mu	ch Trass	kr.	
bstrate*: (These	values	should a	add up to 100%.)		. 10	<i>,</i> –	
			(Consumb	% Sand	07 0215	% Mud/Clay	% Bedrocl
% Cobb	n*: {nc	te amoi	ant of vegetation	or algal growth at the ass	% Silt essment site) - gra SS	76 Midd Clay	
% Cobb uatic Vegetation The ST hea ater Character	n*: (no	ote amor	ant of vegetation	or algal growth at the ass	essment site) - gra SS		70 2000
% Cobb uatic Vegetation The Solve the Solve Solve Mater Character Odork	n*: (no	(Mark	ant of vegetation agg of wi all that apply.) Musky	or algal growth at the ass the willow 4	essment site) - gra SS DNone	Other:	4
% Cobb uatic Vegetation The Solve the Solve Solve Meter Character Odork Color:	n*: {nc w stics*:	(Mark ewage	ant of vegetation	or algal growth at the ass the willow 4 Chemical Gray	essment site) - gra SS None Milky	Other:	
% Cobb uatic Vegetation the Scheau ater Character Odork Color: Bottom Deposit:	n*: (no stics*:	(Mark ewage	all that apply.) Green Solids	or algal growth at the ass the Willow 4 Chemical Gray Fine sediments	essment site) — gra SS — None — Milky — None	☐ Other: ☐ Other: ☐ Other:	
% Cobb uatic Vegetation The Solve the Solve Solve Meter Character Odork Color:	n*: {nc w stics*:	(Mark ewage	ant of vegetation	or algal growth at the ass the willow 4 Chemical Gray	essment site) - gra SS None Milky	Other:	,
% Cobb uatic Vegetation the Scheau ater Character Odork Color: Bottom Deposit: Surface Deposit: mments: Please nis information is not aprehensive unders	stics*: Stics*: So C Stics Stics	(Mark ewage lear hadge il	all that apply.) Musky Green Solids Scum ional comment	or algal growth at the ass the Willow 4 Chemical Gray Fine sediments	essment site) - 9/2 5/8 - Whone - Milky - None - None - Interpolation but rather on is not intende	Other: Other: Other: Other: other: other: other: other:	n.

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

NA INTERNATION			Cita Lagar	ion Door in in Section 1	Clare P. David		
Missouri WBID #: 1870	102		Site Local	ion Description: Spring Branch	, Class P, Dent County		
Site GPS Coordinates:					- · · · · · · · · · · · · · · · · · · ·		
Date & Time: Way	13, 8:3.	<u>5</u>		Facility Name: Salem WWTF, Adams Subd. Asoc. Inc, Seville Care			
Personnel: Priscilla Stott	ts		Permit Nu	Permit Number: MO-0021768, MO-0083984, MO-0089974, MO-			
Current Weather Conditi	ons: clear	<i>)</i>	Weather C	Weather Conditions for Past 7 days:			
Photo Ids: Upstream:		wnstream:		Other:			
Uses Observed*:							
Swimming	Skin diving		SCUBA diving	Tubing	☐ Water skiing		
☐ Wind surfing	Kayaking		Boating	Wading	Rafting		
Hunting	☐ Trapping		Fishing	Mone of the above	Other:		
			•	photo-documentation of evidence			
Surrounding Condition items of interest.)	s*: (Mark all that	promote or	impede recreati	onal uses. Attach photos of evid	lence or unusual		
ity/county parks	Playgrounds	☐ MDC	conservation la	nds Urban areas	☐ Campgrounds		
☐ Boating accesses	State parks	☐ Nation	nal forests	☐ Nature trails	☐ Stairs/waikway		
☐ No trespass sign	Fence	Steep	slopes	Other:			
Evidence of Human Use	e*:						
Roads	Foot paths/pr	rints [Dock/platform	Livestock Watering	RV / ATV Tracks		
☐ Rope swings	Camping Site	es 🗀	Fire pit/ring	☐ NPDES Discharge	Fishing Tackle		
Other: Some	Track						
*Some of this information is a may point to conditions that a	of interest. (Inc not intended to dir- need further analys	lude photo ectly influen is or that effo	ographs) ce a decision on ect another use.	essessment sites clearly labels any one particular recreational same to low water.	use analysis but		
	/						

September 29, 2004

Last printed 05/11/05 9:59 AM

Page 1

Data Sheet B - Site Characterization

Stream Morp Upstream	phology: View Physical Dime	ensions:			
Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth	(ft):
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth	(ft):
[Z] Pool	Width (ft): ~ 15 '	Length (ft): 60	Avg. Depth (ft):	// Max. Depth	(ft): 1 #
Flow	Present? Yes	No Very Slow	Estimated (ft³/sec): O,	34 cfs	
Downstre	am View Physical D	•			,
Z Riffle	Width (ft): 3	Length (ft): 4 /	Avg. Depth (ft):	Max. Depth	(ft): 5/p
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth	(ft):
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth	(ft):
Flow	Present? Yes] No	Estimated (ft³/sec).	x of s	
	(These values should add		nd % Silt	30 % Mud/Clay	20 % Bedrock
Aquatic Veg	2 % Bould	of vegetation or algal gro			
Water Char	acteristics*: (Mark all	that apply.)			
Odor:	☐ Sewage	Musky C	hemical None	Other:	
Color:	Clear		ray Milky		
Bottom De	· · · · · · · · · · · · · · · · · · ·	_ 	ne sediments Done	Other:	<u></u>
Surface De	posit:	Scum Fo	oam Wone	Other:	
*This informaticomprehensive	on is not to be used solely understanding of water co	nal comments (including for removal of a recreation additions. Consequently, it may point to conditions	onal use designation but rathis information is not into	ather is to provide a mended to directly influe	ore ence a
I, the unders	_	n to the best of my k	nowledge, that all in	formation report	
Organization	· \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	IR.	Position: $\underline{\mathscr{E}}$	13-05 nw III	



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 187	0.03		Site Location Description: Spring Branch, Class P, Dent County				
Site GPS Coordinates:			1				
Date & Time: YMaes	13 8:55		Facility Name: Salem WWTF, Adams Subd. Asoc. Inc, Seville Care				
Personnel: Priscilla Stotts Current Weather Conditions: Clar / P.C. Photo Ids: Upstream: \(\frac{9.05}{0.05} \) Downstream:			Permit Number: MO-0021768, MO-0083984, MO-0089974, MO-00899974, MO-00899974, MO-00899999999999999999999999999999999999				
							X/145 Othe
						Alisi	
cs Observed*:	_						
Swimming	Skin diving	□sc	UBA diving	Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□Вс	pating	Wading	Rafting		
☐ Hunting	Trapping	☐ Fis	shing	None of the above	Mher:		
Describe. (Bartale name	er of marviduals for	reating, requ	iency of use, photo	-documentation of evidence	of recreational uses, etc		
rrounding Condition				uses. Attach photos of evide			
		promote or im					
rrounding Condition	ns*: (Mark all that)	promote or im	apede recreational to	uses. Attach photos of evide	nce or unusual		
rrounding Conditions of interest.)	ns*: (Mark all that p	promote or im	spede recreational unservation lands	uses. Attach photos of evide	nce or unusual		
rrounding Condition ns of interest.) County parks Boating accesses No trespass sign	Playgrounds State parks Fence	promote or im MDC co	spede recreational unservation lands	nses. Attach photos of evide Urban areas	nce or unusual		
rrounding Condition ns of interest.) Dounty parks Boating accesses	Playgrounds State parks Fence	promote or im MDC co	spede recreational unservation lands	nses. Attach photos of evide Urban areas	nce or unusual		
rrounding Condition ns of interest.) Dounty parks Boating accesses No trespass sign idence of Human Us	Playgrounds State parks Fence	promote or im MDC co National Steep slo	apede recreational unservation lands forests opes	Ses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual Campgrounds Stairs/walkway		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

tream Mor Upstream	phology: 1 View Physical D	imensions:				
Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	· · · · · · · · · · · · · · · · · · ·
Æ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Pool	Width (ft): 20	Length (ft): 80	Avg. Depth (ft): ~8"	Max. Depth (ft):	1 ld
Flow	Present?	□No	Estimated (ft ³ /s	sec): 0.	5 - 1 CAS	Ţ
Downstre	am View Physica	l Dimensions:				
Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Pool	Width (ft): 15	Length (ft): 5	Avg. Depth (ft): ~ 1 ′	Max. Depth (ft):	1 '
Flow	Present? Yes	□No	Estimated (ft ³ /s		-Lefs	<u></u>
	in unsh	a grocering and areas	·		Stream bott	
Odor\	Sewage	☐ Musky	Chemical	Z/None	Other:	
Color:	Cleary '	* 	Gray	Milky		eld not The
Bottom De Surface De		Solids Scum	Fine sediments	None None	Other:	
This informati mprehensive cision on the	ion is not to be used so understanding of wat recreation use analys:	tional comments (in olely for removal of a re er conditions. Consequ is but may point to cond firm to the best of	ecreational use designatently, this information ditions that need further	tion but rather i is not intended r analysis or tha	s to provide a more to directly influence a it effect another use.	
	signed, hereby at true and accurat					uns UAA
)rganization	1: <i>mo</i>	DNR ;	Position	5-1 Enu	III	



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

		Site 1	Location Dec	cription: Spring Branch, C	lass P. Dent County	
Missouri WBID #: 1870	Missouri WBID #: 1870 . O 4			cription. Spring Diancii, C	lass I , Dent County	
Site GPS Coordinates:						
Date & Time: Mare	3.2005 9135	Facil	Facility Name: Salem WWTF, Adams Subd. Asoc. Inc, Seville Care			
Personnel: Priscilla Stotts			Permit Number: MO-0021768, MO-0083984, MO-0089974, MO-0097076 Weather Conditions for Past 7 days: Jair No haw			
Current Weather Condition	ns: Partly Cloudy	ر_ Wea				
Photo Ids: Upstream:	Downstre	am: 9.45	Other:			
Uses Observed*:						
Swimming	Skin diving	SCUBA d	iving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Boating		Wading	Rafting	
Hunting	Trapping	Fishing		None of the above	Other:	
Describe: (include numbe	r of individuals recreating	g, frequency of	use, photo-d	locumentation of evidence	of recreational uses, etc.)	
Empire used by	Gas Emplo	yees Lrom	told Sales	me this s	ite is	
Surrounding Condition (tems of interest.)						
City/county parks	Playgrounds	MDC conservat	tion lands	Urban areas	☐ Campgrounds	
Boating accesses	State parks	National forests	3	☐ Nature trails	Stairs/walkway	
☐ No trespass sign	∏ Fence □	Steep slopes		Dother: Jan Build	osi by	
Evidence of Human Use	e*:			,		
Roads	Foot paths/prints	Dock/pl	atform	Livestock Watering	RV / ATV Tracks	
Rope swings	Camping Sites	Fire pit/	ring	☐ NPDES Discharge	Fishing Tackle	
Other: Old b	ridge Support	ls, byo	rle r	iding path	<u> </u>	
Site Locations Map(s):	Attach a map of enti			nent sites clearly labele	ed. Mark any	

other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

Stream Morpholo Unstream Viev	ogy: v Physical Dime	ensions:						
	h (ft):	Length (ft):	A	vg. Depth (ft	:):	М	ax. Depth ((ft):
Run Widt	h (ft)։	Length (ft):	A	vg. Depth (ft	:):	М	ax. Depth ((ft):
Nool Widt	h (ft): 30	Length (ft):	1004 A	vg. Depth (ft	:): \	i M	ax. Depth ((fi): 1,5 '
Flow Prese		No		stimated (ft ³ /	sec):	3 Cf3	5	
T	* To: 1 1 To:					<u> </u>		· <u> </u>
4	iew Physical Di			Dansh (A	۸.		ov Denth (((A),
	h (ft):	Length (ft):		vg, Depth (ft	-		ax. Depth (
-	h (ft):	Length (ft):		vg, Depth (ft	-		ax. Depth (
Pool Widt	h (ft): 15	Length (ft): 4	10 A	vg. Depth (fi	0: [1/2 M	ax. Depth	(ft): 2
Flow Prese	nt? 🔯 Yes 🗆	No	E	stimated (ft ³ /	sec):	<u>.</u> .		
Substrate*: (Thes	a valvas ebould add	um to 100% \						
20 % Cobb		ravel	% Sand	30	% Silt	40%N	/ud/Clay	% Bedrock
		•				- 40	- '	
Aquatic Vegetati	n*: (note amount	of vegetation or	algal growt	at the assess	sment site)		
30%	lose growing	nd.			,,			
Water Character	istics*: (Mark all	that apply.)						
Odor;	Sewage	☐ Musky	Cher	nical	None		Other:	
Color:	12 Clear	Green	Gray		Milky		Other:	
Bottom Deposit:	Sludge	Solids	Fine	sediments	☐ None		Other:	
Surface Deposit:	☐ Oil	Scum	Foar	1	None		Other:	
Comments: Pleas Creek w. This information is recomprehensive under decision on the recrea	ater Smell of to be used solely standing of water co	for removal of a	recreations	Stronger Il use designa information	tion but rais not into	ather is to prended to dire	rovide a mo	ore ence a
I, the undersigne datasheet is true Signed:	•	0	ķ1				_	ed on this UAA
Organization:		. :	,	Date: Position	:_E	w B	T	



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 1870.65 5			Site Location D	escription: Spring Branch, (Class P, Dent County		
Site GPS Coordinates:							
Date & Time: Maul	3.05 10:	10	Facility Name:	Facility Name: Salem WWTF, Adams Subd. Asoc. Inc, Seville Care			
Personnel: Priscilla Stotts			Permit Number	Permit Number: MO-0021768, MO-0083984, MO-0089974, MO-			
Current Weather Conditi	Current Weather Conditions: Contly Clouds			tions for Past 7 days:	/ . air)		
	7/	nstream:	Othe	er:			
Uses Observed*:							
Swimming	Skin diving	□s	CUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□в	oating	□ Wading	Rafting		
Hunting	Trapping	□F	ishing	None of the above	Other:		
1 -	taking			-documentation of evidence	of recreational ascs, e.e.)		
•	15*: (Mark all that p	oromote or i	mpede recreational	uses. Attach photos of evide	nce or unusual		
•	15*: (Mark all that p		mpede recreational	uses. Attach photos of evide	nce or unusual Campgrounds		
tems of interest.)	· -	☐ MDC o	<u>-</u>	<u>•</u>	· 		
	Playgrounds	☐ MDC o	conservation lands	☐ Urban areas	☐ Campgrounds		
City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC o	conservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds		
City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC o	conservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds		
tems of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC o ☐ Nation ☐ Steep s nts ☐	conservation lands al forests slopes	Urban areas Nature trails Other:	Campgrounds Stairs/walkway		
City/county parks Boating accesses No trespass sign Evidence of Human Us	Playgrounds State parks Fence e*:	☐ MDC o ☐ Nation ☐ Steep s nts ☐	conservation lands al forests slopes Dock/platform Fire pit/ring	☐ Urban areas ☐ Nature trails ☐ Other: ☐ Livestock Watering	Campgrounds Stairs/walkway		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

	orphology: am View Phy	ysical Dimen	sions:				
Riff		• •	ength (ft):	Avg. Depth (f	t):	Max. Depth (ft);	
[☑ Run	Width (ft):	/o I	Length (ft): / 2	2 Avg. Depth (f	it):	Max. Depth (ft):	
[X] P∞i	Width (ft):	25	Length (ft): 4/5	- 50 Avg. Depth (t	t): /	Max. Depth (ft):	/
Flov	· · · · · · · · · · · · · · · · · · ·	Yes N	1 0	Estimated (ft ³	/sec): 3.3 c	efs	
_				•			
_		Physical Din					
Riff		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Length (ft):		i): + 1 fd	Max. Depth (ft):	
Run	Width (ft):	I	Length (ft):	Avg. Depth (f	t):	Max. Depth (ft):	
Pool	Width (ft):	/8 I	Length (ft): 2		î): > 2 ′		<u> 32.5°</u>
Flov	v Present?	∏ Yes □ N	No	Estimated (ft ³	^{/sec):} 3.0- 3	3.5	
	*: (These value	es should add u	p to 100%.)	% Sand 3.3	% Silt	% Mud/Clay	% Bedrock
~~~~	<u>/</u>	φυ	Hard	% Sand 30	v much So	2 d	
Aquatic V	egetation*:	(note amount of	f vegetation or als	gal growth at the asses	sment site)		
CI	lase grou	ing a	194e 90 	% of 54	rean su	bstrate	
Water Ch	aracteristics	*: (Mark all th	at apply.)				
Odor,		Sewage	<b>∐</b> -Musky	☐ Chemical	None	Other;	
Color:	<u> </u>	Ćlear	Green	Gray	Milky	Other:	
	Deposit:	Sludge	Solids	Pine sediments	None	Other:	•
Surface	Deposit:	Oil	Scum	<b>1</b> Foam 0.5 %	None	Other:	
*This inform	nation is not to l	be used solely fo	or removal of a reditions. Consequ	ncluding information ecreational use designated tently, this information ditions that need further	ation but rather is to	o provide a more directly influence a	
I, the und datasheet Signed:	ersigned, he is true and :	reby affirm accurate.	to the best of	my knowledge, th	nat all informat	tion reported on	this UAA
Organizati	ion:	ODN	R.	Date:Position	:: <u>Env-</u> .	III	_

